

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	9	"05216516" "05337069" "05337168" "05349610" "05495266" "05683135" "06052156" "06125288" "06255577"	US-PGPUB; USPAT	OR	ON	2007/10/08 19:55
S4	1	704/207.ccls. and @ad<"20030331" and (semiconductor circuit processor ic) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:17
S6	0	704/278.ccls. and @ad<"20030331" and (semiconductor circuit processor ic) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:46
S7	3	704/270.ccls. and @ad<"20030331" and (semiconductor circuit processor ic) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:18
S8	9	"704"/\$.ccls. and @ad<"20030331" and (semiconductor circuit processor ic) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:26

## EAST Search History

S9	3	"704"/\$.ccls. and @ad<"20030331" and (semiconductor circuit processor ic) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:30
S10	8	@ad<"20030331" and (semiconductor circuit processor ic) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:28
S11	6	"704"/\$.ccls. and @ad<"20070331" and (semiconductor circuit processor ic) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:32

## EAST Search History

S12	8	"704"/\$.ccls. and @ad<"20070331" and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:43
S15	4	"704"/\$.ccls. and @ad<"20030331" and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:47
S16	0	704/278.ccls. and @ad<"20030331" and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (audio music song) and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) with (voice speech)	US-PGPUB; USPAT	OR	ON	2007/10/08 20:46
S17	31	"704"/\$.ccls. and @ad<"20030331" and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song)	US-PGPUB; USPAT	OR	ON	2007/10/09 10:33

## EAST Search History

S18	12	"704"/\$.cccls. and @ad<"20030331" and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song) and (multi\$4 plural\$4) with input	US-PGPUB; USPAT	OR	ON	2007/10/08 20:49
S19	1	"704"/\$.cccls. and @ad<"20030331" and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song) and delta-sigma	US-PGPUB; USPAT	OR	ON	2007/10/09 10:39
S20	2	@ad<"20030331" and (oversampl\$4up-sampl\$4 upsampl\$4 oversampl\$4 "over sampl\$4" re-sampl\$4 resampl\$4) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song) and delta-sigma	US-PGPUB; USPAT	OR	ON	2007/10/09 13:47
S21	1	@ad<"20030331" and (combin\$6 mix\$4 add\$4) with (voice\$4 speech) with (audio music\$4 song\$4) and delta-sigma with converters	US-PGPUB; USPAT	OR	OFF	2007/10/09 10:51
S22	2	@ad<"20030331" and (combin\$6 mix\$4 add\$4) with (voice\$4 speech) with (audio music\$4 song\$4) and delta-sigma with convert\$4	US-PGPUB; USPAT	OR	OFF	2007/10/09 10:53
S23	2	@ad<"20030331" and (combin\$6 mix\$4 add\$4) with (voice\$4 speech) with (audio music\$4 song\$4 background) and delta-sigma with convert\$4	US-PGPUB; USPAT	OR	OFF	2007/10/09 10:54
S24	7	@ad<"20070331" and (combin\$6 mix\$4 add\$4) with (voice\$4 speech) with (audio music\$4 song\$4 background) and delta-sigma with convert\$4	US-PGPUB; USPAT	OR	OFF	2007/10/09 10:55

## EAST Search History

S27	12	@ad<"20030331" and (combin\$6 mix\$4 add\$4) with (voice\$4 speech audio music\$4 song\$4 background) and delta-sigma with converters and (determin\$4 select\$4 predetermin\$4 predetermin\$4 predefin\$4 pre-defin\$4 default) near3 sampling adj2 (rate frequency)	US-PGPUB; USPAT	OR	ON	2007/10/09 11:02
S29	3	@ad<"20030331" and (semiconductor circuit processor ic) and (combin\$6 mix\$4 add\$4) with (voice speech) with (audio music song) and delta-sigma	US-PGPUB; USPAT	OR	ON	2007/10/09 13:48
S30	199	@ad<"20030331" and (semiconductor circuit processor ic) and (combin\$6 mix\$4 add\$4) with (voice speech audio music song background) and delta-sigma	US-PGPUB; USPAT	OR	ON	2007/10/09 13:49
S31	132	@ad<"20030331" and (semiconductor circuit processor ic) and (combin\$6 mix\$4 add\$4) with (voice speech audio music song background) and delta-sigma with convert\$4	US-PGPUB; USPAT	OR	ON	2007/10/11 11:17
S35	2	@ad<"20030331" and (semiconductor\$4 circuit\$4 processor\$4 ic) and (combin\$6 mix\$4 add\$4) with (voice speech audio music song background) and delta-sigma with convert\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and (determin\$4 select\$4 predetermin\$4 predetermin\$4 predefin\$4 pre-defin\$4 default) near3 sampling adj2 (rate frequency)	US-PGPUB; USPAT	OR	OFF	2007/10/11 11:18

## EAST Search History

S39	1	@ad<"20030331" and (semiconductor\$4 circuit\$4 processor\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) and (audio music song backgroun)) and delta-sigma and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (converter)	US-PGPUB; USPAT	OR	OFF	2007/10/09 14:23
S42	11	@ad<"20030331" and (semiconductor\$4 circuit\$4 processor\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) and (audio music song backgroun)) and delta-sigma and converters and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4)	US-PGPUB; USPAT	OR	OFF	2007/10/09 17:41
S48	18	"704"/\$.ccls. and @ad<"20030331" and (semiconductor\$4 circuit\$4 processors ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) and (audio music song backgroun)) and convert\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/09 17:59
S51	21	"704"/\$.ccls. and @ad<"20030331" and (integrat\$4 circuit\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) and (audio music song backgroun)) and convert\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/11 10:57

## EAST Search History

S52	0	"704"/278.ccls. and @ad<"20030331" and (integrat\$4 circuit\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) and (audio music song backgroun)) and convert\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/09 18:01
S53	6	"704"/\$.ccls. and @ad<"20030331" and (integrat\$4 adj2 circuit\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) and (audio music song backgroun)) and convert\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/09 18:14
S56	1	"20070213977"	US-PGPUB; USPAT	OR	OFF	2007/10/10 12:38
S57	2	("4450742"   "6100462").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 12:41
S58	1	("6255577").URPN.	USPAT	OR	OFF	2007/10/10 12:42
S59	24	("20020103552"   "4478525"   "4602546"   "4796014"   "5054787"   "5146473"   "5214543"   "5225944"   "5315638"   "5388992"   "5675509"   "5726629"   "5753844"   "5778335"   "6094587"   "6167251"   "6252495"   "6255577"   "6355870"   "6366791"   "6411198"   "6501967"   "6549767"   "6554711").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 12:42
S60	14	("5117234"   "5150120"   "5345236"   "5363101"   "5438623"   "5483528"   "5550544"   "5561425"   "5589830"   "5647008"   "5729225"   "5751615"   "5774567"   "5835044").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 14:44
S61	14	("6154161").URPN.	USPAT	OR	OFF	2007/10/10 15:11

## EAST Search History

S62	1	("6154497").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 15:15
S63	3	("6608572").URPN.	USPAT	OR	OFF	2007/10/10 15:16
S64	7	("4817167"   "4910780"   "4926138"   "4965674"   "5184219"   "5291525"   "5392348").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 15:16
S65	1	("5642463").URPN.	USPAT	OR	OFF	2007/10/10 15:17
S66	1	("6173265").URPN.	USPAT	OR	OFF	2007/10/10 15:20
S67	3	("5245667"   "5490174"   "5504751").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 15:20
S68	7	("4202018"   "4473850"   "4758907"   "4763206"   "4827490"   "4856030"   "4864526").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 15:21
S69	17	("5245667").URPN.	USPAT	OR	OFF	2007/10/10 15:23
S70	9	("3359378"   "4192974"   "4331843"   "4980908"   "5045809"   "5075687"   "5119365"   "5204976").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 15:25
S71	14	("5473666").URPN.	USPAT	OR	OFF	2007/10/10 15:25



## EAST Search History

S72	63	("3555192"   "3605042"   "3681704"   "3725583"   "3769459"   "4076959"   "4214501"   "4489439"   "4509191"   "4528696"   "4584700"   "4584921"   "4649786"   "4731835"   "4748669"   "4752960"   "4817149"   "4841572"   "4864246"   "4866774"   "4909119"   "4942799"   "4955057"   "4993073"   "5012199"   "5046107"   "5123050"   "5130665"   "5140886"   "5179238"   "5189705"   "5201005"   "5263092"   "5300723"   "5317104"   "5323275"   "5333203"   "5342990"   "5365195"   "5369711"   "5371803"   "5384856"   "5394476"   "5400410"   "5410265"   "5491755"   "5555306"   "5567901"   "5596651"   "5621801"   "5633939"   "5644098"   "5652800"   "5665929"   "5677962"   "5731534"   "5744739"   "5745583"   "5808575"   "5812677"   "5883963"   "5907622"   "Re33739").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 15:26
S76	8	(integrat\$4 adj2 circuit\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) with (audio music song background)) with digital\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/10 17:41
S77	56	@ad<"20030331" and (integrat\$4 adj2 circuit\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) with (audio music song background)) and convert\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/10 17:40

## EAST Search History

S78	2	@ad<"20030331" and (integrat\$4 adj2 circuit\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) with (audio music song background)) with digital\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/10 17:43
S80	19	@ad<"20030331" and (integrat\$4 adj2 circuit\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech audio music song background)) with digitally and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/10 17:49
S81	29	@ad<"20030331" and (integrat\$4 adj2 circuit\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech audio music\$4 song background sound\$4)) with digitally and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/10 17:50
S82	42	("5982305").URPN.	USPAT	OR	OFF	2007/10/10 17:52
S83	1	"341"/\$.ccls. and @ad<"20030331" and (integrat\$4 circuit\$4 ic) and (combin\$6 mix\$4 add\$4) with ((voice speech) and (audio music song backgroun)) and convert\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/11 10:59

## EAST Search History

S84	2	@ad<"20030331" and (semiconductor\$4 circuit\$4 processor\$4 ic) and (combin\$6 mix\$4 add\$4) with (voice speech audio music song backgroun) and delta-sigma with convert\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and (determin\$4 select\$4 predetermin\$4 predetermin\$4 predefin\$4 pre-defin\$4 default) near3 sampling adj2 (rate frequency)	US-PGPUB; USPAT	OR	OFF	2007/10/11 11:18
S85	30	@ad<"20030331" and (semiconductor\$4 circuit\$4 processor\$4 ic) and (combin\$6 mix\$4 add\$4) with (voice speech audio music song backgroun) and delta-sigma with convert\$4 and (dsps microprocessors microcontrollers micro-processors micro-controllers micro-computers processors microcomputers) and (multi\$4 plural\$4) with (input\$4 output\$4) and converters	US-PGPUB; USPAT	OR	OFF	2007/10/11 11:18